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## Military Oxygen Storage Tank (MOST) Combat Risk Assessment

Proliferating utilization of GPS in U.S. weapon systems, concerns have risen over our technology. With the growing dependence on GPS for precision guidance, Weapon Systems designers are increasingly concerned over the potential vulnerability of GPS receivers to jamming. This state-of-the-art report describes Global Positioning System (GPS) fundamentals for weapon guidance and derives ranges of influence of near-term jamming threats against GPS receivers with various levels of anti-jam protection.



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## Homeland Security Analysis and Reporting

Ordinarily, the business of Intelligence research, counter terrorism analysis and reporting can become a thankless chore, with a continuous grind of early morning research, formal brief preparation, source checking, filing and editing. As one day blends into the next and you continue publishing your work to an open ended list of consumers, it is easy to lose sight of your audience.

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### Homeland Security Analysis and Reporting (continued)

This was certainly the case at the Standing Joint Force Headquarters - Homeland Security (SJFHQ-HLS) located on the Naval Base in Norfolk, Virginia. Subordinated to the U.S. Northern Command in Colorado Springs, Colorado the SJFHQ-HLS was tasked with the daunting mission to "See First", "Understand First" and "Act First" in the Global War on Terrorism. In particular, the Joint Intelligence Support Element (JISE) supported by SURVIAC counterterrorism analysts monitored reporting of world events over multi-level security systems, liaised with analysts and reporters world wide in real time via networked computers systems and using plain old telephones. Collaboration was the watchword and maintaining contact with your "battle buddy" was a must. It wasn't good enough to just maintain Situational Awareness (SA), there was an urgency about the job that kept us constantly leaning forward, trying to eke out that last bit of information, or link two scraps of story that might illuminate an evolving operation. Seldom was there any feedback, positive or negative. We came to learn that there would rarely be issues that were clearly black or white, only possibilities or probabilities leaning precariously on shadowy tendencies. Analysis and reporting continued for weeks, then months with little or no response from consumers.

It was a typical mid morning, after the completion of the morning update to the Commanding General, when the telephone rang. On the other end was a Warrant Officer who was trying to find out why he wasn't receiving our morning briefings any more. Come to find out that the server that he usually pulled them from was temporarily down and we were more than happy to help restore the service to him. What made this phone call unusual was that it was from the White House Military Support Office and that they used our brief to provide threat awareness to their teams when they were deployed. We couldn't have been more pleased to learn that our product was being directly employed by members of the White House staff.

SURVIAC support to the JISE within the Standing Joint Force Headquarters – Homeland Security enabled not only a strong intelligence capability, but also a strong Crisis Action Team and Joint Operations Planning Group that enabled a smooth transition of knowledge and capabilities during the Headquarters transition from Norfolk to Colorado Springs in April 2004. General Ralph E. Eberhart, USAF, the USNORTHCOM Commander, awarded the SJFHQ-HLS the Joint Meritorious Unit Award. The JISE has been nominated for Meritorious Intelligence Unit award.

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### Military Oxygen Storage Tank (MOST)Combat Risk Assessment (continued)

As part of this effort the Survivability/Vulnerability Information & Analysis Center (SURVIAC) defined and performed a Combat Risk Assessment on the MOST system as carried in a C-130 aircraft. This assessment involved researching possible Combat incidents involving Medevac missions, experienced C-130 hit distributions, the portion of missions expected to be Medevac missions, the probabilities of the C-130 receiving combat damage on a sortie and the relative hit probabilities of the MOST and the C-130 aircraft. A geometric model was made of the MOST unit and of the natural shielding resulting from the C-130 skin and structure and typical residual velocities at the MOST bottles were computed. The results of the combat risk assessment as documented in a SURVIAC report indicated that the MOST concept is acceptable without review as carried on a typical C-130. The C-130 combat data analysis has also been provided to units in Iraq to assist in their planning and employment in a combat environment

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